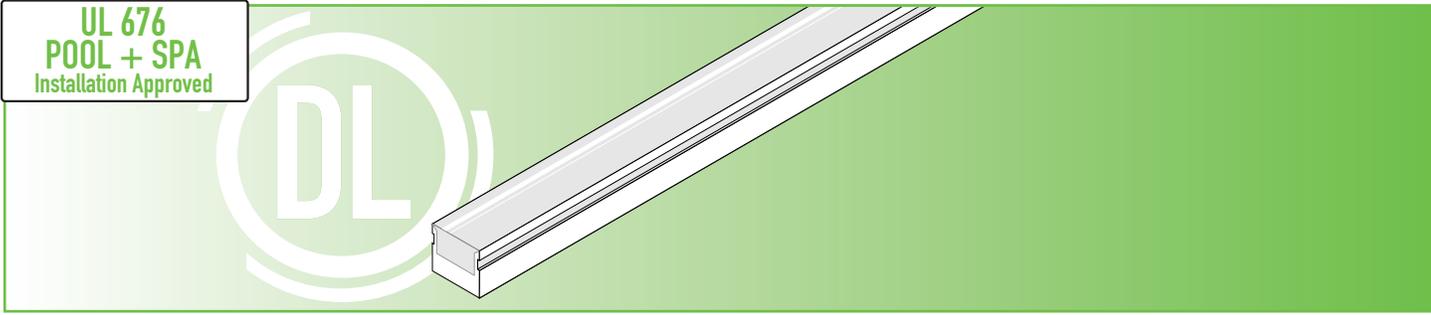




Item #
Project

UL 676
POOL + SPA
Installation Approved



SPECIFICATIONS

DI-24V-TE-AT02-FL		225	400
Voltage	24VDC		
Wattage	2.8W/ft.	4.6W/ft.	
Lumens¹	2800K	238 Lm/ft.	388 Lm/ft.
	3200K	215 Lm/ft.	411 Lm/ft.
	3600K	226 Lm/ft.	434 Lm/ft.
Custom Produced	1.32 in. Increments		
Max Run²	16 ft.		
CRI	95+		
Dimmable	Yes		
Field Cuttable	No		
Diffusion Options	Premium Diffused		
Certification	UL 2108, UL 676		
Warranty	5 Years Standard / 2 Year Sauna ³ / 2 Year Deep Cold ³		
Environment	Indoor / Outdoor, IP69		

FEATURES

- Fully customizable
- Elegant design
- Engineered for rugged environments
- Lightweight, durable, and flexible
- Perfect for both indoor and outdoor applications
- UL 676 - Pool and Spa certified
- NSF Component Approved
- Chemical Resistant
- Sauna Resistant
- Deep Cold Resistant
- For applications -40°F-180°F

SKU Builder

DI	-	24V	-	TE	-	AT02	-		-		-	FL	-	PD	-		-		-		-	
		Voltage		Orientation (Top emitting)		Model		Lumens		CCT		Flexible		Diffuser		Length		Mount		UL Cert		
								225		28						(Rotating Clip)		RTCL		UL2108		
								400		32						(Flat Clip)		MTCL		UL676		
										36						(Channel)		MTCH				
																(90° Clip)		90CL				

Example: **DI-24V-TE-AT02-400-32-FL-PD-8'2"-RTCL-UL2108** = Diode, 24 Volt, Top emitting, AlphaTECH[®] 400 Type 2, 400 Lumens, 3200 CCT, Flexible, Premium Diffused, 8 feet 2 inches, 96" lead, with rotating mounting clip, and UL2108 Certified.

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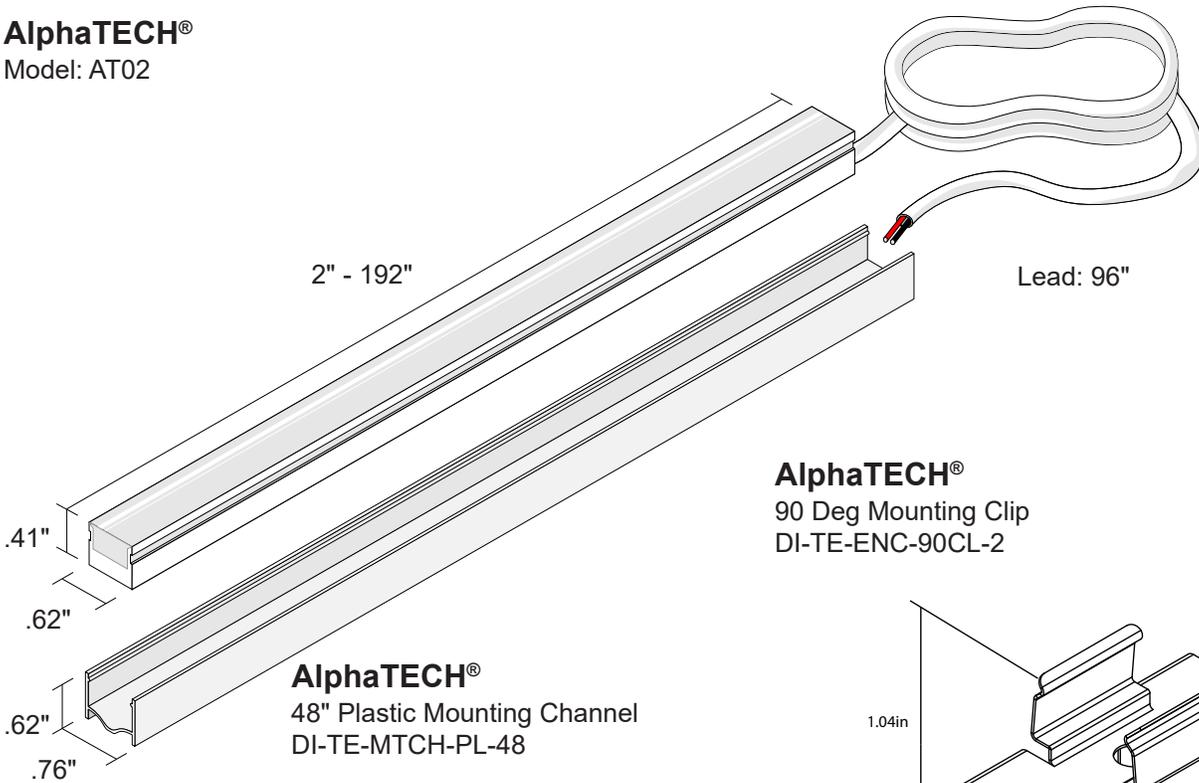
AlphaTECH® 225 / 400 LED STRIP LIGHT

SPECIFICATION SHEET

MECHANICAL DIAGRAMS

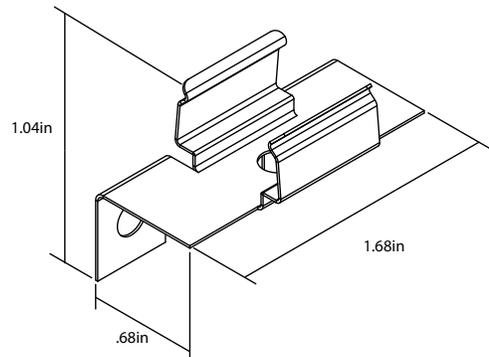
AlphaTECH®

Model: AT02



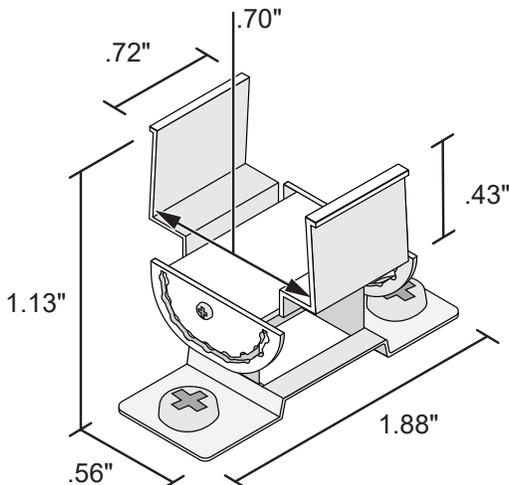
AlphaTECH®
48" Plastic Mounting Channel
DI-TE-MTCH-PL-48

AlphaTECH®
90 Deg Mounting Clip
DI-TE-ENC-90CL-2



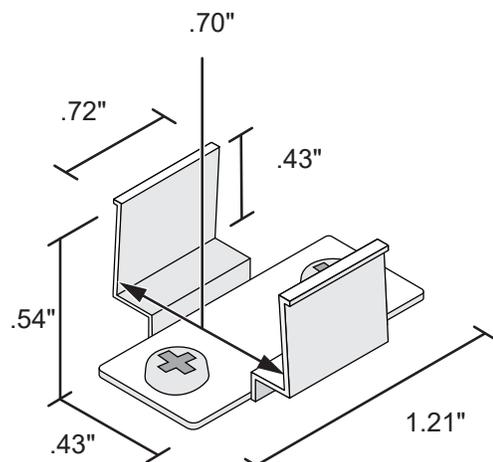
AlphaTECH®

Rotating Mounting Clip
DI-TE-ENC-RTCL-2



AlphaTECH®

Flat Mounting Clip
DI-TE-ENC-MTCL-2



AlphaTECH® 225 / 400 LED STRIP LIGHT

SPECIFICATION SHEET

LED DRIVERS (Required)

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

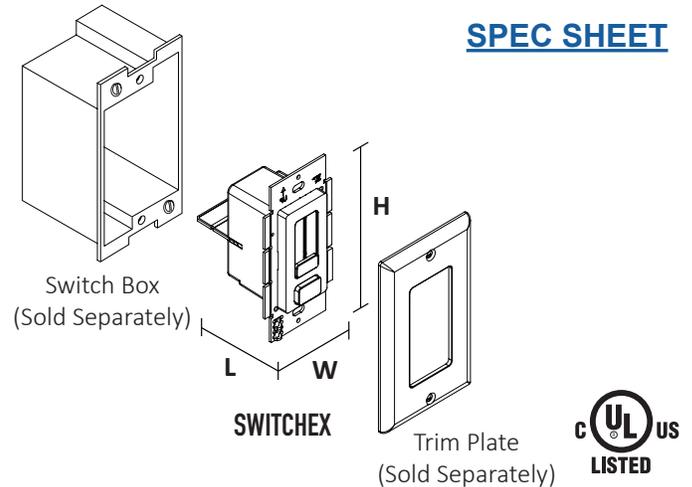
SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

	Voltage Output		Power Output
DI	24V	SE	60W

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-24V-SE-60W	1.40 in.	2.10 in.	4.10 in.
DI-24V-SE-100W	1.40 in.	2.10 in.	4.10 in.

Fits in Standard Switch Box

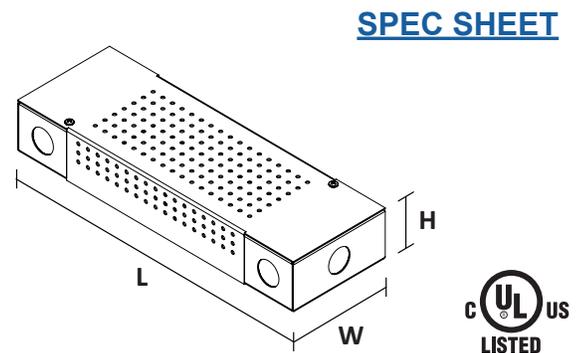


LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

	Voltage & Power Output	Junction Box
DI	0970	LPS

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-0970-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V60W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V90W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-0954-LPL	13.5 in.	4.5 in.	2.37 in.

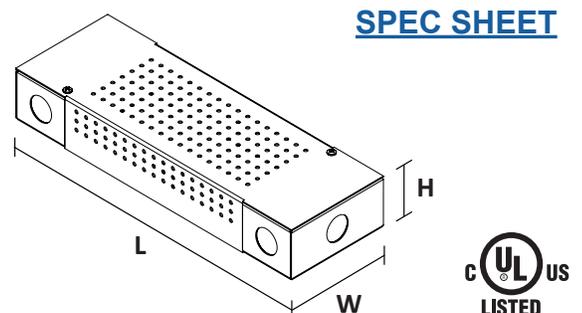


LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER

Compatible with 0-10V controls and dimming systems.

	Voltage & Power Output		Junction Box
DI-DM	MW24V60W	0-10V	LPS

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-MW-24V60W-0-10V-LPS	11.25 in.	3.75 in.	1.90 in.
DI-DM-MW-24V90W-0-10V-LPL	13.5 in.	4.5 in.	2.37 in.



AlphaTECH® 225 / 400 LED STRIP LIGHT

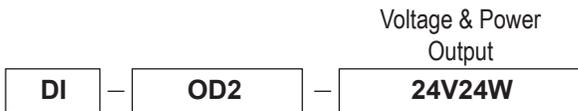
SPECIFICATION SHEET

LED DRIVERS Cont. (Required)

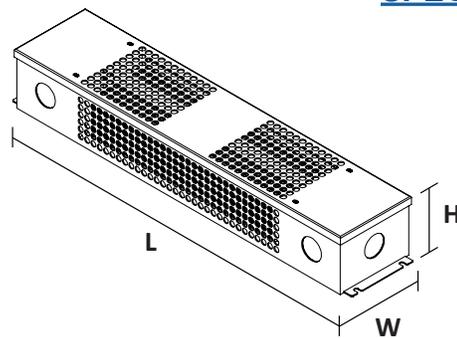
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: <https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf/>



SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-OD2-24V24W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V60W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V96W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V120W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V200W	16.10 in.	3.40 in.	2.40 in.



[SPEC SHEET](#)

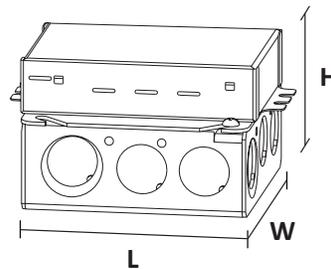


LUTRON® Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.



SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V40W-L3D	4.89 in.	4.00 in.	2.62 in.
DI-DM-24V40W-LTE			



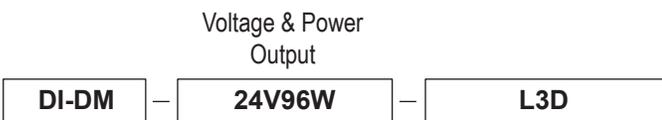
[L3D SPEC SHEET](#)

[LTE SPEC SHEET](#)

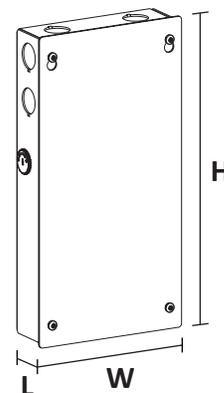


LUTRON® Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.



SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V96W-L3D	5.50 in.	2.20 in.	10.50 in.



[SPEC SHEET](#)



AlphaTECH® 225 / 400 LED STRIP LIGHT

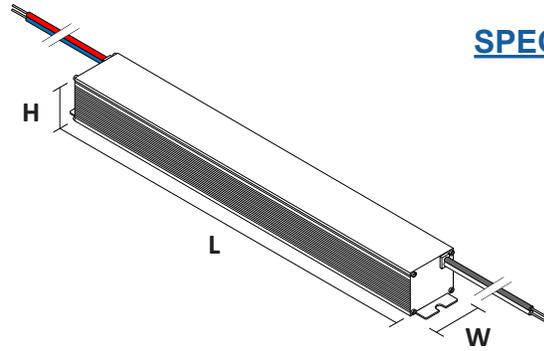
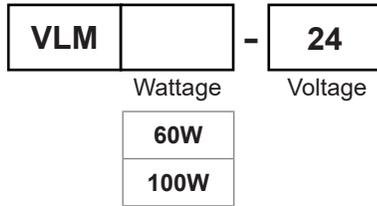
SPECIFICATION SHEET

LED DRIVERS (Required)

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

VLM SERIES CONSTANT VOLTAGE DRIVER

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.



[SPEC SHEET](#)

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
VLM60W-24	5.1 in.	.75 in.	.77 in.
VLM100W-24	5.38 in.	1 in.	.77 in.



AlphaTECH® 225 / 400 LED STRIP LIGHT

SPECIFICATION SHEET

SPECIFICATIONS (CONT.)

- Material: High performance, UV Resistant Polyurethane Blend
- Luminous Efficacy⁵ (lm/w): Various
- Mounting: Flat Mounting Clip, Mounting Channel, Rotating Mounting Clip, 90° Mounting Clip
- Connections: 20/2 AWG UL2464 Bare wire, 18/2 AWG SJTW (UL676 Required), 20/2 AWG MIC (non-waterproof), 20/2 AWG DC Barrel (non-waterproof)
- Ambient Temp⁶: -4 - 122°F (-20 ~ 50°C)
- Ambient Temp (Sauna): 180°F Max, <30% Humidity
- Ambient Temp (Deep Cold): -40°F Min, Luminaire is required to be energized when temperature falls below -4°F
- Transient Compressive Load Limit: 1000 Pounds
- Flammability⁸: Flame retardant
- UV Resistance: Yes but may still degrade over time

COMPATIBLE DRIVERS

Additional information on compatible Drivers can be found on page 3-6 or on the Diode LED web site at: www.DiodeLED.com.

COMPLIANCE & REGULATORY APPROVALS

Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL 676 Underwater Luminaires / CAN/CSA C22.2 No. 89-1976 / UL 8750. This certification conforms to Article 680 and 682 of the National Electrical Code® for installation in swimming pools, fountains, spas, natural and artificially made bodies of water. File# E479607
- NSF Sanitation Certified: NSF/ANSI Standard 2 2018 - Food Equipment

Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

1. Lumen value measured in accordance to IES LM-79. LED chips have a luminous flux range with a tolerance of +/- 5%. Testing done with premium diffusion lens.
2. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
3. Sauna & Deep Cold applications warrantied for 2 years. Out of warranty condition is a greater than 25% loss of light output from initial installation.
4. Requests for custom lengths of Strip Light will be cut to the nearest (lower) cut point. (Example: *DI-24V-TE-AT2-FL-PD-4400-8' 3"* would be cut to 98 inches (ie. 8' 2"))
5. Actual efficacy value is dependent on specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
6. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency and materials.
7. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
8. This product has been tested and passed glow-wire flammability tests (GWFI index) at 650°C/1200°F, providing an extra level of safety for common areas, hospitality, and areas of high risk fire.

AlphaTECH® 225 / 400 LED STRIP LIGHT

SPECIFICATION SHEET

ADDITIONAL INFORMATION

- AlphaTECH® LED STRIP LIGHT Installation Guide

SAFETY / WARNINGS / DISCLOSURES

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only install with a listed Class 2 DC LED Driver.
4. Do not modify or disassemble product beyond instructions or this warranty will be void.
5. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
6. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

Standard application: This product has a five (5) year limited warranty from the date of shipment.

Sauna application: This product has a two (2) year limited warranty from the date of shipment. (If used outside of the maximum listed ambient temperature)

Deep Cold application: This product has a two (2) year limited warranty from the date of shipment. Luminaire is required to be energized when temperatures fall below -4F.(If used outside of the minimum listed ambient temperature)

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from an Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



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